

# traxon



## LED Engine Smart 100W Indoor



A universal AC input Power Supply Unit (PSU), equipped with TX Connect ready connectors. The LED Engine Smart 100W Indoor is a slim, fanless Class 2 (UL1310) power supply that ensures high reliability in any LED lighting application.



### OUTPUT SPECIFICATIONS

- **Power Interface:** TX Connect Smart Indoor
- **DC Voltage:** 24V
- **Rated Current:** 4A
- **Rated Power:** 96W
- **Ripple & Noise (max.):** 150mVp-p
- **Voltage Tolerance:**  $\pm 3.0\%$
- **Line Regulation:**  $\pm 1.0\%$
- **Load Regulation:**  $\pm 2.0\%$
- **Setup, Rise Time (max.):** 1200ms, 80ms/230VAC      1200ms, 80ms/115VAC at full load
- **Hold Up Time (typ.):** 60ms/230VAC      30ms/115VAC at full load

### INPUT SPECIFICATIONS

- **Main Interface:** IEC C14 male
- **Voltage Range:** 100 ~ 240VAC
- **Frequency Range:** 47 ~ 63Hz
- **Power Factor (typ.):** PF > 0.95/230VAC      PF > 0.98/115VAC at full load
- **Efficiency (typ.):** 87%
- **AC Current (typ.):** 20V ~ 48V: 0.55A/230VAC      20V ~ 48V: 1.1A/115VAC
- **Inrush Current (typ.):** COLD START 40A/230VAC
- **Leakage Current (typ.):** 0.5mA/240VAC

### PROTECTION

- **Over Current:** 95 ~ 100% (Constant current limiting, recovers automatically after fault condition is removed)
- **Over Voltage:** 27 ~ 34V (Shut down and latch off output voltage, re-power on to recover)
- **Over Temperature:** 90°C  $\pm$  10°C / 194°F  $\pm$  50°F (RTH2) (Shut down output voltage, re-power on to recover)

### ENVIRONMENT

- **Working Temperature:** -30°C ~ +40°C / -22°F ~ 104°F
- **Working Humidity:** 20 ~ 90% RH non-condensing
- **Storage Temperature; Humidity:** -40°C ~ +80°C / -40°F ~ 176°F; 10 ~ 95% RH
- **Vibration:** 10 ~ 500Hz, 2G 10min./cycle, period for 60min. each along X, Y, Z, axes

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01/17 V1.5

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LED Engine Smart 100W Indoor

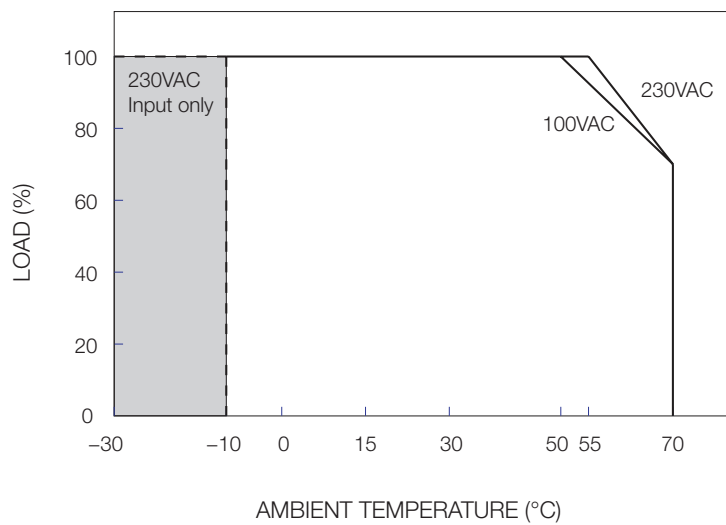
## SAFETY & EMC

- **Safety Standards:** UL1310 Class 2, TUV EN60950-1
- **EMI Conduction & Radiation:** Compliance to EN55022 (CISPR22) Class B
- **Harmonic Current:** Compliance to EN61000-3-2,3
- **EMS Immunity:** Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A

## OTHERS

- **MTBF:** 300khrs min. MIL-HDBK-217F (25°C / 77°F)
- **Dimension:** 200mm x 70.5mm x 35mm / 7.88" x 2.78" x 1.38"
- **Cables:** 350mm/13.79" 18AWGx3C AC input cable; 350mm/13.79" 16AWGx2C DC output cable
- **Packing:** 655g / 1.44lbs

## DERATING CURVE



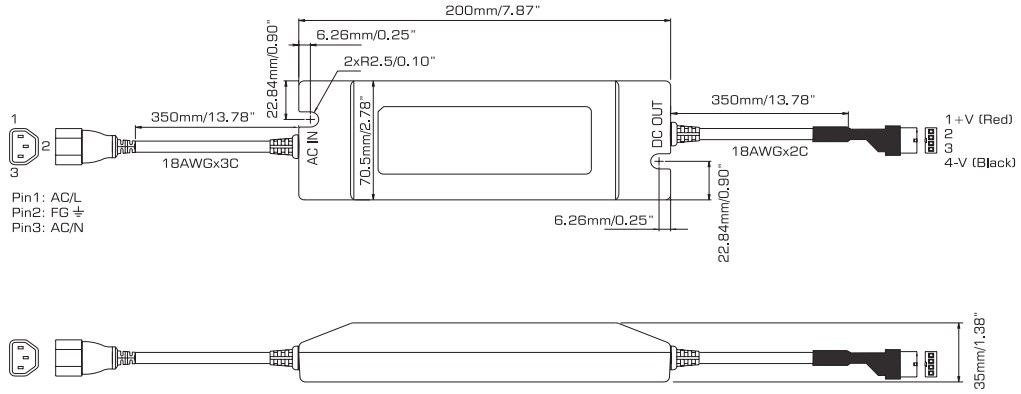
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LED Engine Smart 100W Indoor

Dimensions

## TECHNICAL DRAWING



PSU Dimensions

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LED Engine Smart 100W Indoor

Ordering

## POWER SUPPLY

Model No.	Description	Item Code
PS.IA.0010000	LED Engine Smart 100W Indoor	AA624090055

## TX CONNECT

Model No.	Description	Item Code
TI.ZI.0000100	TX CONNECT Smart Power/Data Injector Box	A704836003J
TI.DO.0000100	TX CONNECT Smart Data Extractor Box	A704842003J
TI.AC.0000100	TX CONNECT Smart Addresser Box	AA438880055
TI.EC.0050000	TX CONNECT Smart Indoor Extension Cable, 0.5m/1.64ft	AA556350055
TI.EC.0100000	TX CONNECT Smart Indoor Extension Cable, 1m/3.28ft	A6342330055
TI.EC.0300000	TX CONNECT Smart Indoor Extension Cable, 3m/9.84ft	A6342410055
TI.EC.0500000	TX CONNECT Smart Indoor Extension Cable, 5m/16.4ft	AA580410055
TI.EC.1000000	TX CONNECT Smart Indoor Extension Cable, 10m/32.8ft	A6342680055

## TX POWER

Model No.	Description	Item Code
PS.AC.0000100	AC Power Cord, 2m/6.6ft (EU)	AA553860055
PS.AC.0000200	AC Power Cord, 2m/6.6ft (US)	AA556290055
PS.AC.0000300	AC Power Cord, 2m/6.6ft (UK)	AA556300155
PS.AC.0000400	AC Power Cord, 2m/6.6ft (AU)	AA556310055